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PATENT

Atty. Docket No. 678-649 (P9792)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#2

APPLICANT(S): Yong Chang

SERIAL NO.: 09/833,986

FILED: April 12, 2001

FOR: METHOD FOR PROVIDING CONCURRENT SERVICE HARD HANDOFF IN A MOBILE COMMUNICATION SYSTEM

Dated: May 2, 2001

Assistant Commissioner
for Patents
Washington, D.C. 20231

ATTN: Official Draftsperson

TRANSMITTAL OF FORMAL DRAWINGS

Sir:

Applicant submits herewith eighteen (18) sheets of formal drawings depicting FIGS. 1-10 for this application.

Respectfully submitted,

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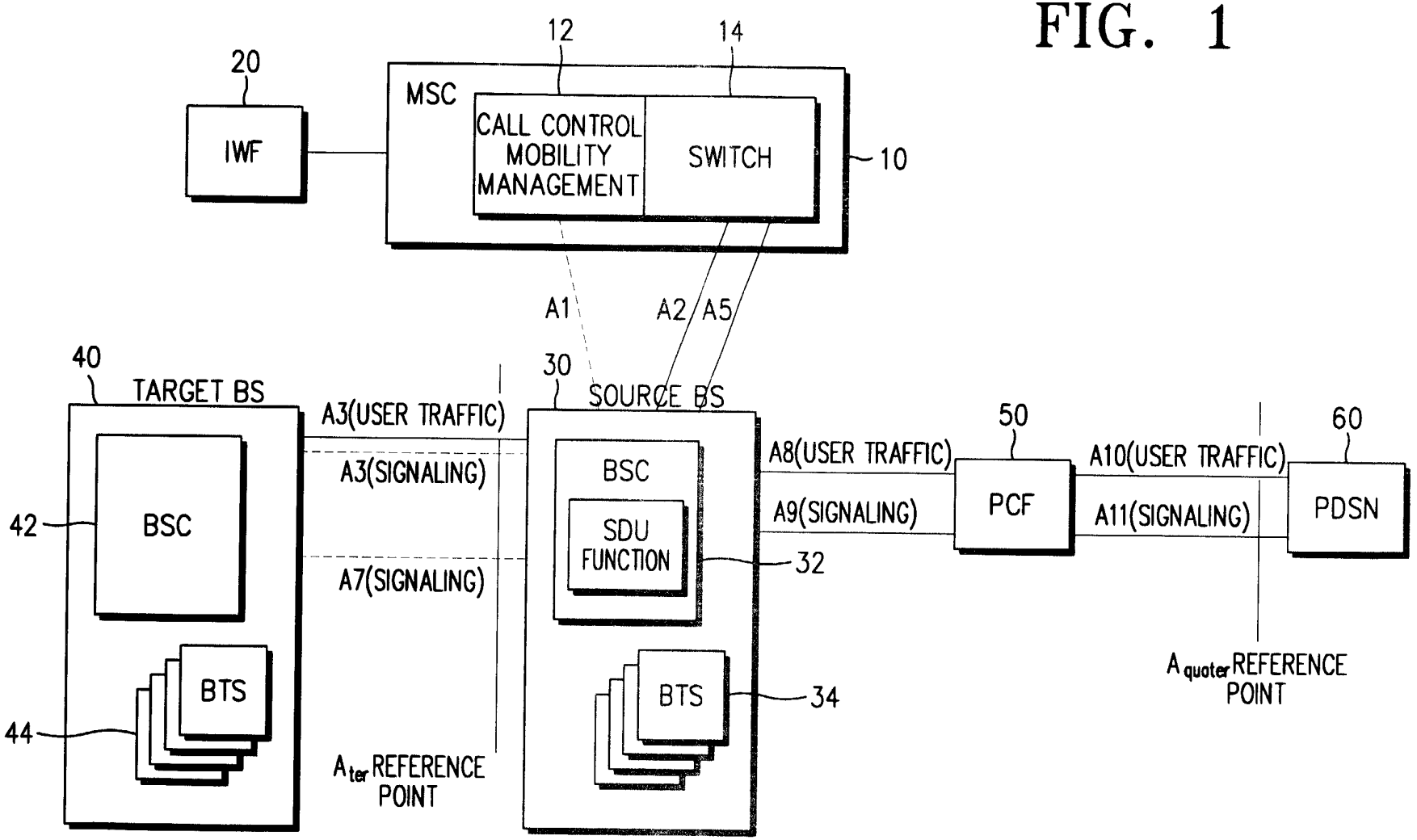
Dated: May 2, 2001

Paul J. Farrell

FIG. 1


12
14
20
MSC
IWF
CALL CONTROL
MOBILITY
MANAGEMENT
SWITCH
10
A1
A2
A5
40
TARGET BS
30
SOURCE BS
A3(USER TRAFFIC)
A3(SIGNALING)
A7(SIGNALING)
BSC
42
BTS
44
BSC
SDU
FUNCTION
32
BTS
34
A ter REFERENCE
POINT
50
A8(USER TRAFFIC)
A9(SIGNALING)
PCF
60
A10(USER TRAFFIC)
A11(SIGNALING)
PDSN
A quoter REFERENCE
POINT

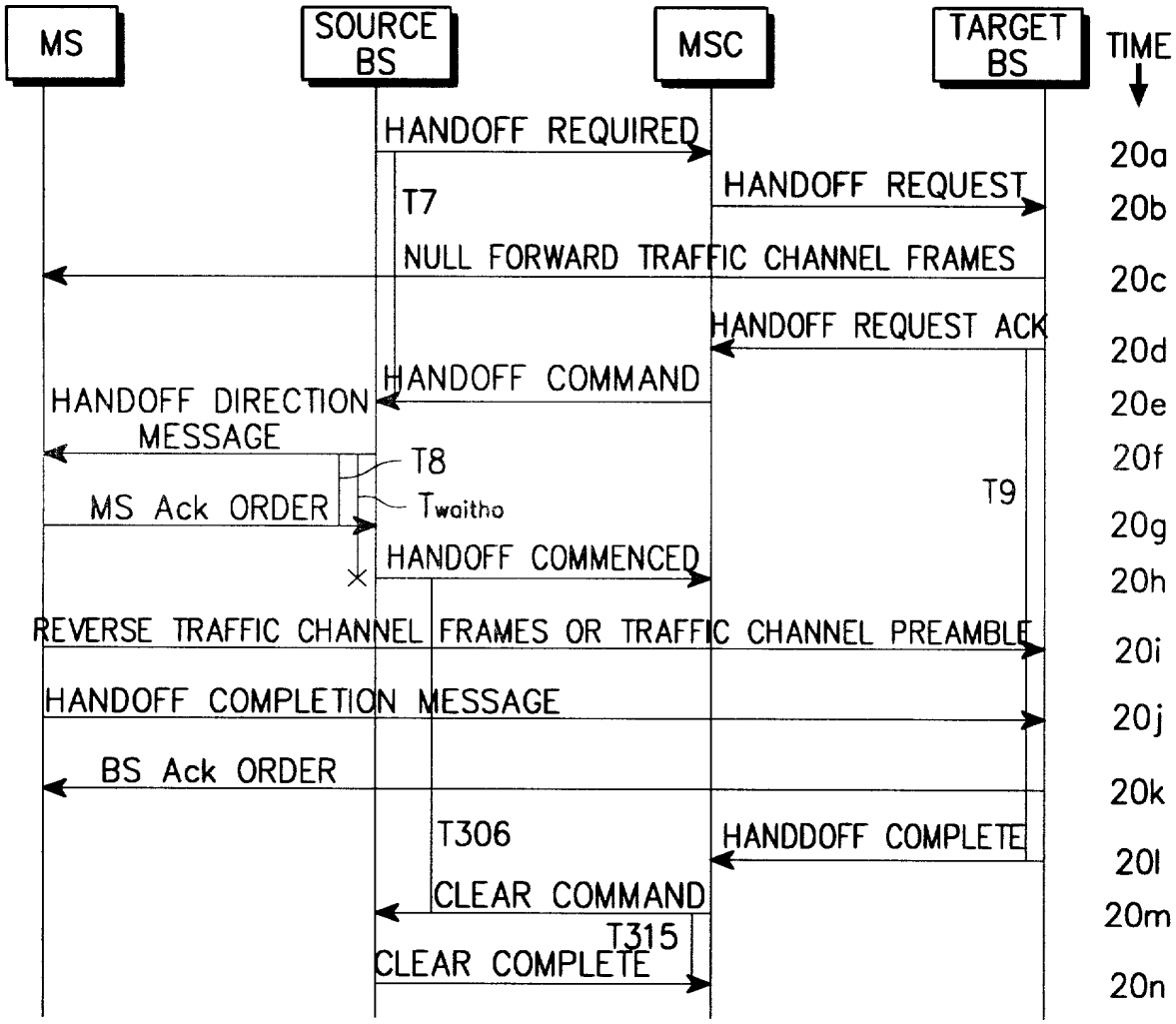

MS
SOURCE BS
MSC
TARGET BS
TIME
HANDOFF REQUIRED
20a
HANDOFF REQUEST
20b
T7
NULL FORWARD TRAFFIC CHANNEL FRAMES
20c
HANDOFF REQUEST ACK
20d
HANDOFF COMMAND
HANDOFF DIRECTION MESSAGE
20e
T8
20f
T9
MS Ack ORDER
Twaitho
20g
HANDOFF COMMENCED
20h
REVERSE TRAFFIC CHANNEL FRAMES OR TRAFFIC CHANNEL PREAMBLE
20i
HANDOFF COMPLETION MESSAGE
20j
BS Ack ORDER
20k
T306
HANDDOFF COMPLETE
20l
CLEAR COMMAND
20m
T315
CLEAR COMPLETE
20n

FIG. 2

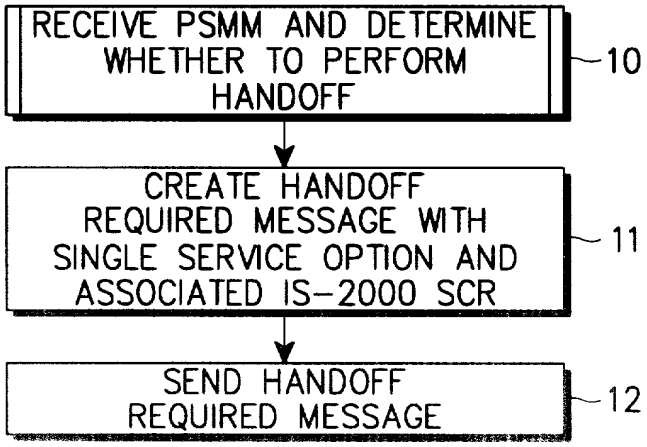

RECEIVE PSMM AND DETERMINE WHETHER TO PERFORM HANDOFF
10
CREATE HANDOFF REQUIRED MESSAGE WITH SINGLE SERVICE OPTION AND ASSOCIATED IS-2000 SCR
11
SEND HANDOFF REQUIRED MESSAGE
12

FIG. 3

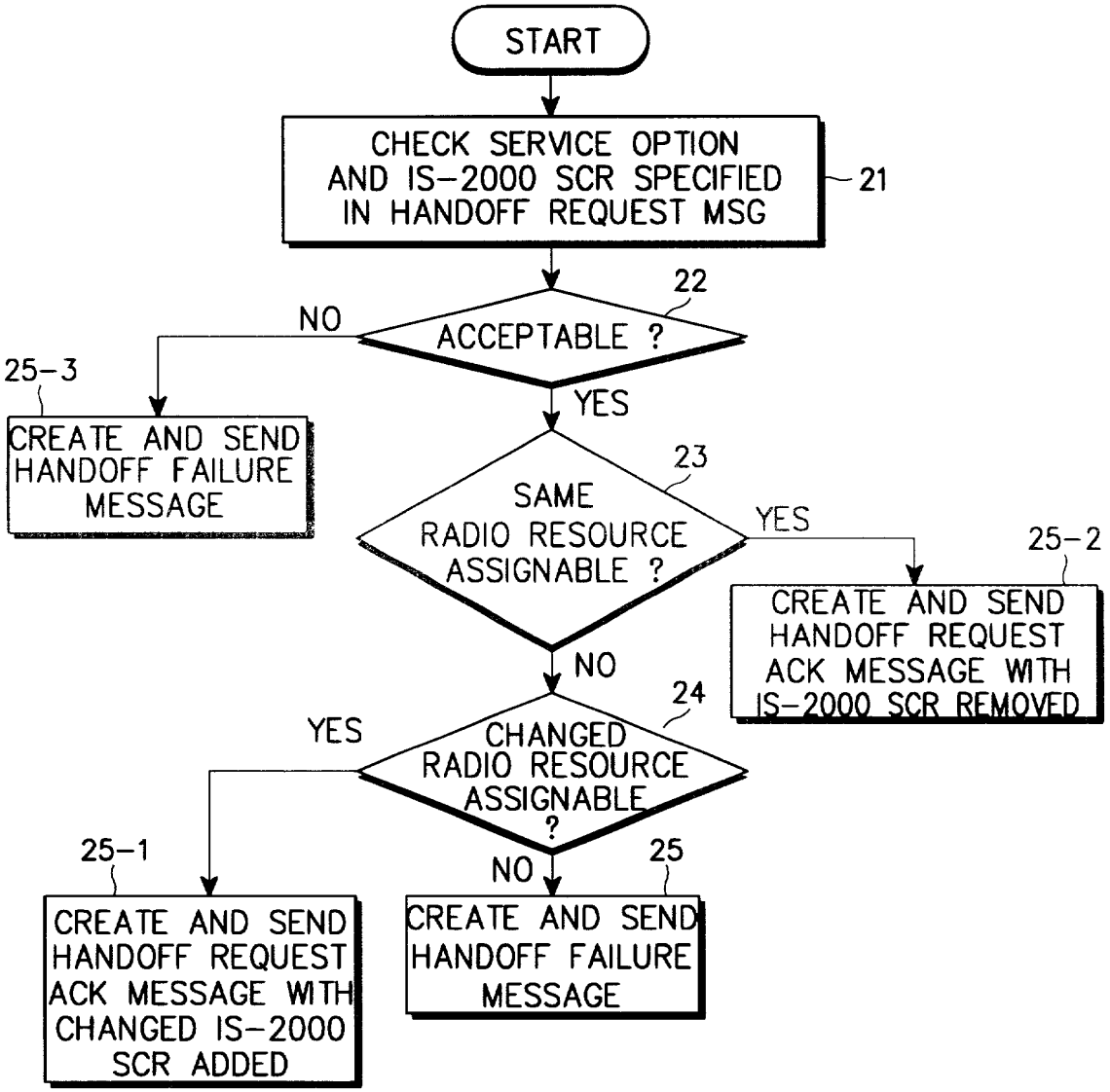

START
CHECK SERVICE OPTION AND IS-2000 SCR SPECIFIED IN HANDOFF REQUEST MSG
21
22
ACCEPTABLE ?
NO
YES
25-3
CREATE AND SEND HANDOFF FAILURE MESSAGE
23
SAME RADIO RESOURCE ASSIGNABLE ?
YES
25-2
CREATE AND SEND HANDOFF REQUEST ACK MESSAGE WITH IS-2000 SCR REMOVED
NO
24
CHANGED RADIO RESOURCE ASSIGNABLE ?
YES
25-1
CREATE AND SEND HANDOFF REQUEST ACK MESSAGE WITH CHANGED IS-2000 SCR ADDED
NO
25
CREATE AND SEND HANDOFF FAILURE MESSAGE

FIG. 4

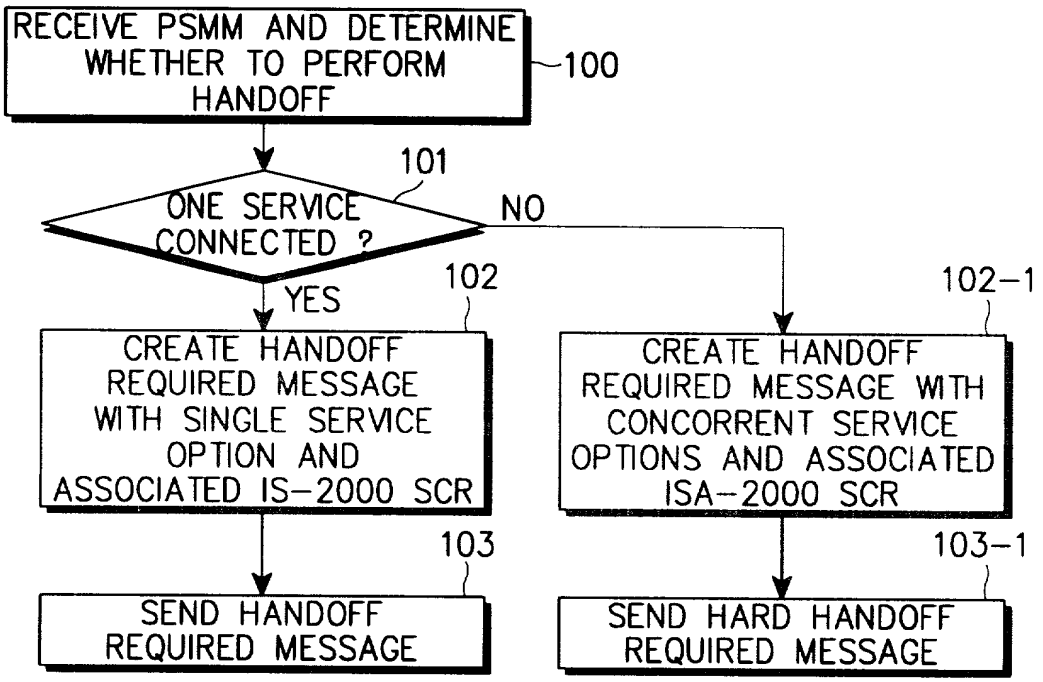

RECEIVE PSMM AND DETERMINE WHETHER TO PERFORM HANDOFF
100
101
ONE SERVICE CONNECTED ?
NO
YES
102
CREATE HANDOFF REQUIRED MESSAGE WITH SINGLE SERVICE OPTION AND ASSOCIATED IS-2000 SCR
102-1
CREATE HANDOFF REQUIRED MESSAGE WITH CONCORRENT SERVICE OPTIONS AND ASSOCIATED ISA-2000 SCR
103
SEND HANDOFF REQUIRED MESSAGE
103-1
SEND HARD HANDOFF REQUIRED MESSAGE

FIG. 5

INFORMATION ELEMENT
MESSAGE TYPE
CAUSE
CELL IDENTIFIER LIST(TARGET)
CLASSMARK INFORMATION TYPE2
RESPONSE REQUEST
ENCRYPTION INFORMATION
IS-95 CHANNEL IDENTITY
MOBILE IDENTITY(ESN)
DOWNLINK RADIO ENVIRONMENT
SERVICE OPTION
CDMA SERVING ONE WAY DELAY
IS-95 MS MEASURED CHANNEL IDENTITY
IS-2000 CHANNEL IDENTITY
QUALITY OF SERVICE PARAMETERS
IS-2000 MOBILE CAPABILITIES
IS-2000 SERVICE CONFIGURATION RECORD
PDSN IP ADDRESS
PROTOCOL TYPE
PACKET ZONE ID
SERVICE OPTION CONNECTION REFERENCE

FIG. 6

7	6	5	4	3	2	1	0	Octet
BSMAP HEADER: MESSAGE DISCRIMINATION = [00H]								1
LENGTH INDICATOR (LI) = <VARIABLE>								2
MESSAGE TYPE = [04H]								1
CAUSE: A1 ELEMENT IDENTIFIER = [04H]								1
LENGTH = [01H]								2
ext=[0]	CAUSE VALUE = [0EH, 0FH] (BETTER CELL, INTERFERENCE)							3
CELL IDENTIFIER LIST(TARGET): A1 ELEMENT IDENTIFIER = [1AH]								1
LENGTH = <VARIABLE>								2
CELL IDENTIFICATION DISCRIMINATOR=[02H,07H]								3
IF(DISCRIMINATOR=02H), CELL IDENTIFICATION {1+:								
(MSB)	CELL=[001H-FFFH]							j
			(LSB)	SECTOR=[0H-FH](0H=0MINI)				j+1
}OR IF (DISCRIMINATOR=07H), CELL IDENTIFICATION{1+:								
(MSB)								j
MSCID=<ANY VALUE>								j+1
							(LSB)	j+2
(MSB)	CELL=[001H-FFFH]							j+3
			(LSB)	SECTOR=[0H-FH](0H=0MINI)				j+4
}CELL IDENTIFICATION								
CLASSMARK INFORMATION TYPE 2: A1 ELEMENT IDENTIFIER=[12H]								1
LENGTH=<VARIABLE>								2
MOBILE P_REV =[000-111]			RESERVED =[0]	SEE LIST OF ENTRIES= [1]	RF POWER CAPABILITY=[000] (CLASS 1, VEHICALE & PORTABLE)			3
RESERVED=[00H]								4
NAR_ AN_ CAP =[0,1]	IS-95 =[1]	SLOTTED =[0,1]	RESERVED=[00]		DTX =[0,1]	MOBILE TERM =[0,1]	RESERVED =[0]	5
--CONTINUED ON Fig.7b--								

FIG. 7A

--CONTINUED ON Fig.7a--			Octet
RESERVED=[00H]			6
RESERVED=[0000 00]	MOBILE TERM =[0,1]	PSI =[0,1]	7
SCM LENGTH=[01H-05H]			8
STATION CLASS MARK=[00H-FFH]			9
COUNT OF BAND CLASS ENTRIES=[01H-20H]			10
BAND CLASS ENTRY LENGTH=[03H]			11
MOBILE BAND CLASS CAPABILITY ENTRY {1+:			
RESERVED=[000]	BAND CLASS n=[0000-1111]		k
RESERVED=[000]	BAND CLASS n AIR INTERFACES SUPPORTED=[0000-1111]		k+1
BAND CLASS n MS PROTOCOL LEVEL=[00H-FFH]			k+2
}MOBILE BAND CLASS CAPABILITY ENTRY			
RESPONSE REQUEST: A1 ELEMENT IDENTIFIER=[1BH]			1
ENCRYPTION INFORMATION: A1 ELEMENT IDENTIFIER=[0AH]			1
LENGTH=<VARIABLE>			2
ENCRYPTION INFO{0..4: IF(ENCRYPTION PARAMETER IDENTIFIER=0001) {1:			
ext=[1]	ENCRYPTION PARAMETER IDENTIFIER= [00001 (SME), 00101 (DATAKEY(ORYX)), 00110(INITIAL RAND)]	STATUS =[0,1] AVAILABLE =[0,1]	j
ENCRYPTION PARAMETER LENGTH=[08H]			j+1
(MSB)			j+2
			j+3
			j+4
ENCRYPTION PARAMETER VALUE=<ANY VALUE>			j+5
			j+6
			j+7
			j+8
		(LSB)	j+9
--CONTINUED ON Fig.7c--			

FIG. 7B

--CONTINUED ON Fig.7b--

				Octet
}OR IF (ENCRYPTION PARAMETER IDENTIFIER=00100){1:				
ext=[1]	ENCRYPTION PARAMETER IDENTIFIER=[00100] (PRIVATE LONGCODE)	STATUS =[0,1]	AVAILABLE =[0,1]	j
UNUSED=[000000]		(MSB)		j+1
				j+2
				j+3
ENCRYPTION PARAMETER VALUE=<ANY VALUE>				j+4
				j+5
				j+6
			(LSB)	j+7
}ENCRYPTION INFO				
IS-95 CHANNEL IDENTITY: A1 ELEMENT IDENTIFIER=[22H]				1
LENGTH=<VARIABLE>				2
HARD HANDOFF =[1]	NUMBER OF CHANNELS TO ADD=[001]	FRAME OFFSET=[0H-FH]		3
{1+:				
WALSH CODE CHANNEL INDEX=<ANY VALUE>				4
PILOT PN CODE (LOW PART)=<ANY VALUE>				5
PILOT PN CODE (HIGH PART) =[0,1]	POWER COMBINED =[0]	Freq. INCLUDED =[1]	RESERVED=[00]	ARFCN(HIGH PART) =[000-111]	6
ARFCN(LOW PART)=[00H-FFH]				7
}				
MOBILE IDENTITY(ESN): A1 ELEMENT IDENTIFIER=[0DH]				1
LENGTH=[05H]				2
IDENTITY DIGIT 1=[0000]	ODD/EVEN INDICATOR =[0]	TYPE OF IDENTITY =[101](ESN)		3
(MSB)				4
ESN=<ANY VALUE>				5
				6
			(LSB)	7

--CONTINUED ON Fig.7d--

FIG. 7C

--CONTINUED ON Fig.7c--	
DOWNLINK RADIO ENVIRONMENT: A1 ELEMENT IDENTIFIER=[29H]	1
LENGTH=<VARIABLE>	2
NUMBER OF CELLS=<VARIABLE>	3
CELL IDENTIFICATION DISCRIMINATOR=[02H,07H]	4
DOWNLINK RADIO ENVIRONMENT{1+:	
IF (DISCRIMINATOR=02H), CELL IDENTIFICATION{1:	
(MSB) CELL=[001H-FFFH]	j
(LSB) SECTOR=[0H-FH](0H=OMNI)	j+1
}OR IF(DISCRIMINATOR=07H), CELL IDENTIFICATION {1:	
(MSB)	j
MSCID=<ANY VALUE>	j+1
(LSB)	j+2
(MSB) CELL=[001H-FFFH]	j+3
(LSB) SECTOR=[0H-FH](0H=OMNI)	j+4
}CELL IDENTIFICATION	
RESERVED=[00] DOWNLINK SIGNAL STRENGTH RAW=[000000-111111]	k
(MSB) CDMA TARGET ONE WAY DLAY=[0000H-FFFFH](x100ns)	k+1
(LSB)	k+2
}DOWNLINK RADIO ENVIRONMENT	
SERVICE OPTION: A1 ELEMENT IDENTIFIER=[03H]	1
(MSB) SERVICE OPTION	2
=[8000H(13K SPEECH), (LSB) 0011H(13K HIGH RATE VOICE SERVICE), 0003H(EVRC), 801FH(13K MARKOV), 0009H(13K LOOPBACK), 0004H(Async DATA RATE SET 1), 0005H(G3 FAX RATE SET 1), 000CH(Async DATA RATE SET 2), 000DH(G3 FAX RATE SET 2), 0006H(SMS RATE SET 1), 000EH(SMS RATE SET 2) 0021H(PACKET DATA), 0012H(OTAPA RATE SET 1), 0013H(OTAPA RATE SET 2)]	3
--CONTINUED ON Fig.7e--	

FIG. 7D

--CONTINUED ON Fig.7d--	
CDMA SERVING ONE WAY DELAY: A1 ELEMENT IDENTIFIER=[0CH]	1
LENGTH=<VARIABLE>	2
CELL IDENTIFICATION DISCRIMINATOR=[03H,06H]	3
IF(DISCRIMINATOR=02H), CELL IDENTIFICATION {1:	
(MSB) CELL=[001H-FFFH]	j
(LSB) SECTOR=[0H-FH](0H=OMNI)	j+1
}OR IF(DISCRIMINATOR=07H), CELL IDENTIFICATION {1:	
(MSB)	j
MSCID=<ANY VALUE>	j+1
(LSB)	j+2
(MSB) CELL=[001H-FFFH]	j+3
(LSB) SECTOR=[0H-FH](0H=OMNI)	j+4
}CELL IDENTIFICATION	
(MSB) CDMA SERVING ONE WAY DELAY=[0000H-FFFFH](x100ns)	k
(LSB)	k+1
IS-95 MS MEASURED CHANNEL IDENTITY: A1 ELEMENT IDENTIFIER=[64H]	1
LENGTH=<VARIABLE>	2
BAND CLASS=[00000-11111] / ARFCN(HIGH PART) =[000-111]	3
ARFCN(LOW PART)=[00H-FFH]	4
IS-2000 CHANNEL IDENTITY: A1 ELEMENT IDENTIFIER=[09H]	1
LENGTH=<VARIABLE>	2
RESERVED=[0000] / FRAME OFFSET=[0H-FH]	3
CHANNEL INFORMATION {1+:	
PHYSICAL CHANNEL TYPE= [01H(FUNDAMENTAL CHANNEL-FCH-IS-2000), 02H(DEDICATED CONTROL CHANNEL-DCH-IS-2000)]	4n
RESERVED =[0] / PILOT GATING RATE =[00,01,10] / QOF MASK =<ANY VALUE> / WALSH CODE CHANNEL INDEX (HIGH PART)=<ANY VALUE>	4n+1
WALSH CODE CHANNEL INDEX(LOW PART)=<ANY VALUE>	4n+2
PILOT PN CODE (LOW PART)=<ANY VALUE>	4n+3
--CONTINUED ON Fig.7f--	

FIG. 7E

--CONTINUED ON Fig.7e--				
PILOT PN CODE (HIGH PART) =[0,1]	RESERVED=[000]	Freq. INCLUDED =[1]	ARFCN(HIGH PART) =[000-111]	6
ARFCN(LOW PART)=[00H-FFH]				7
} CHANNEL INFORMATION				
QUALITY OF SERVICE PARAMETERS: A1 ELEMENT IDENTIFIER=[07H]				1
LENGTH=[01H]				2
RESERVED=[0000]		PACKET PRIORITY=[0000-1101]		3
IS-2000 MOBILE CAPABILITIES: AL ELEMENT IDENTIFIER=[11H]				1
LENGTH=<VARIABLE>				2
RESERVED =[00]	DCCH SUPPORTED =[0,1]	FCH SUPPORTED =[0,1]	OTD SUPPORTED =[0,1]	OTD INFO INCLUDED =[0,1]	ENHANCED RC CFG SUPPORTED =[0,1]	QPCH SUPPORTED =[0,1]	3
RESERVED =[00]	FORWARD RC PREFERRED= [0 0001(RADIO CONFIGURATION 1), 0 0010(RADIO CONFIGURATION 2), 0 0011(RADIO CONFIGURATION 3), 0 0100(RADIO CONFIGURATION 4), 0 0101(RADIO CONFIGURATION 5), 0 0110(RADIO CONFIGURATION 6), 0 0111(RADIO CONFIGURATION 7), 0 1000(RADIO CONFIGURATION 8), 1 0001(RADIO CONFIGURATION 9)]					FORWARD RC Pref. INCLUDED =[0,1]	4
RESERVED =[00]	REVERSE RC PREFERRED= [0 0001(RADIO CONFIGURATION 1), 0 0010(RADIO CONFIGURATION 2), 0 0011(RADIO CONFIGURATION 3), 0 0100(RADIO CONFIGURATION 4), 0 0101(RADIO CONFIGURATION 5), 0 0110(RADIO CONFIGURATION 6),					REVERSE RC Pref. INCLUDED =[0,1]	5
FCH INFORMATION: BIT-EXACT LENGTH-Octet COUNT =[00H TO FFH]							6
RESERVED =[0000 0]				FCH INFORMATION: BIT-EXACT LENGTH-FILL BITS =[000 TO 111]			7
--CONTINUED ON Fig.7g--							

FIG. 7F

--CONTINUED ON Fig.7f--	
(MSB)	8
FCH INFORMATION CONTENT =<ANY VALUE>	• • •
SEVENTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / SIXTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / FIFTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / FOURTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / THIRD FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / SECOND FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / FIRST FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)]	k
DCCH INFORMATION: BIT-EXACT LENGTH-Octet COUNT =[00H TO FFH]	k+1
RESERVED=[0000 0] / DCCH INFORMATION BIT-EXACT LENGTH-FILL BITS=[000 TO 111]	k+2
(MSB)	k+3
DCCH INFORMATION CONTENT =<ANY VALUE>	• • •
SEVENTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / SIXTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / FIFTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / FOURTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / THIRD FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / SECOND FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / FIRST FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)]	m
IS-2000 SERVICE CONFIGURATION RECORD: A1 ELEMENT IDENTIFIER=[0EH]	1
BIT-EXACT LENGTH-Octet COUNT=<VARIABLE>	2
RESERVED=[0000 0] / BIT-EXACT LENGTH-FILL BITS=[000 - 111]	3
(MSB)	4
IS-2000 SERVICE CONFIGURATION RECORD CONTENT=<ANY VALUE>	• • •
SEVENTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / SIXTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / FIFTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / FOURTH FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / THIRD FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / SECOND FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)] / FIRST FILL BIT-IF NEEDED =[0(IF USED AS A FILL BIT)]	k
--CONTINUED ON Fig.7h--	

FIG. 7G

--CONTINUED ON Fig.7g--

PDSN IP ADDRESS: A1 ELEMENT IDENTIFIER=[14H]		1
LENGTH=[04H]		2
(MSB)		3
PDSN IP ADDRESS=<ANY VALUE>		4
		5
	(LSB)	6
PROTOCOL TYPE: A1 ELEMENT IDENTIFIER=[18H]		1
LENGTH=[02H]		2
(MSB)	PROTOCOL TYPE=[88 0BH](PPP)	3
	(LSB)	4
PACKET ZONE ID: A1 ELEMENT IDENTIFIER=[xxH]		1
(MSB)	PACKET ZONE ID (LSB)	2
SERVICE OPTION CONNECTION REFERENCE: A1 ELEMENT IDENTIFIER=[xxH]		1
LENGTH=[013H]		2
RESERVED=[000000]	SOC_NUM=1	3
(MSB)	SERVICE OPTION 1	4
=[8000H (13K SPEECH), 0011H (13K HIGH RATE VOICE SERVICE), 0003H (EVRC), 801FH (13K MARKOV), 0009H (13K LOOPBACK), 0004H (Async DATA RATE SET 1), 0005H (G3 FAX RATE SET 1), 000CH (Async DATA RATE SET 2), 000DH (G3 FAX RATE SET 2), 0006H (SMS RATE SET 1), 000EH (SMS RATE SET 2), 0021H (PACKET DATA), 0012H (OTAPA RATE SET 1), 0013H (OTAPA RATE SET 2)]	(LSB)	5
(MSB)		6
SERVICE OPTION 1 CONNECTION REFERENCE=<ANY VALUE>		7
		8
	(LSB)	9

--CONTINUED ON Fig.7i--

FIG. 7H

--CONTINUED ON Fig.7h--		
(MSB) SERVICE OPTION 2		10
=[8000H (13K SPEECH), 0011H (13K HIGH RATE VOICE SERVICE), 0003H (EVRC), 801FH (13K MARKOV), 0009H (13K LOOPBACK), 0004H (Async DATA RATE SET 1), 0005H (G3 FAX RATE SET 1), 000CH (Async DATA RATE SET 2), 000DH (G3 FAX RATE SET 2), 0006H (SMS RATE SET 1), 000EH (SMS RATE SET 2), 0021H (PACKET DATA), 0012H (OTAPA RATE SET 1), 0013H (OTAPA RATE SET 2)]	(LSB)	11
(MSB)		12
SERVICE OPTION 2 CONNECTION REFERENCE=<ANY VALUE>		13
		14
	(MSB)	15

FIG. 7I

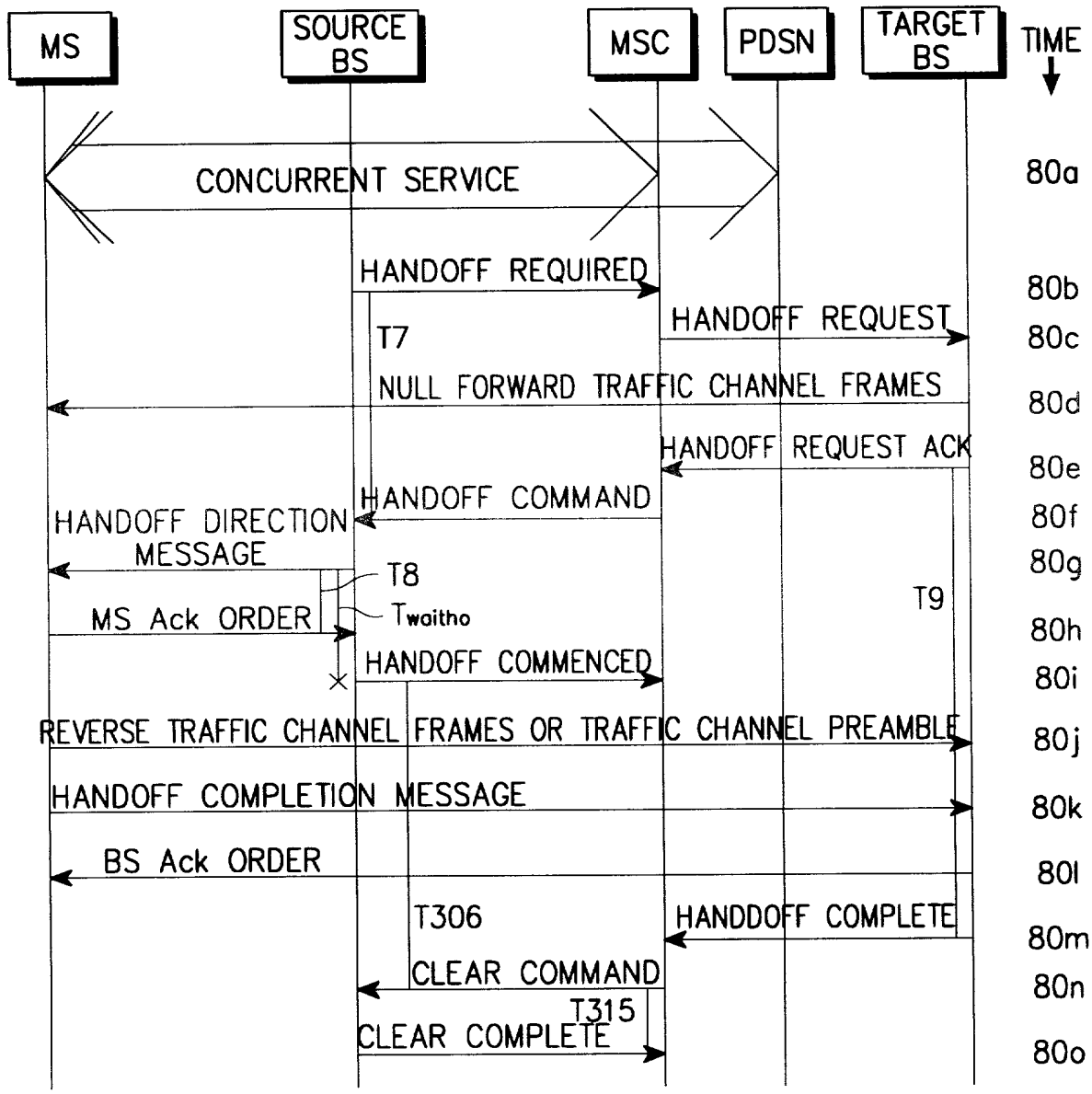
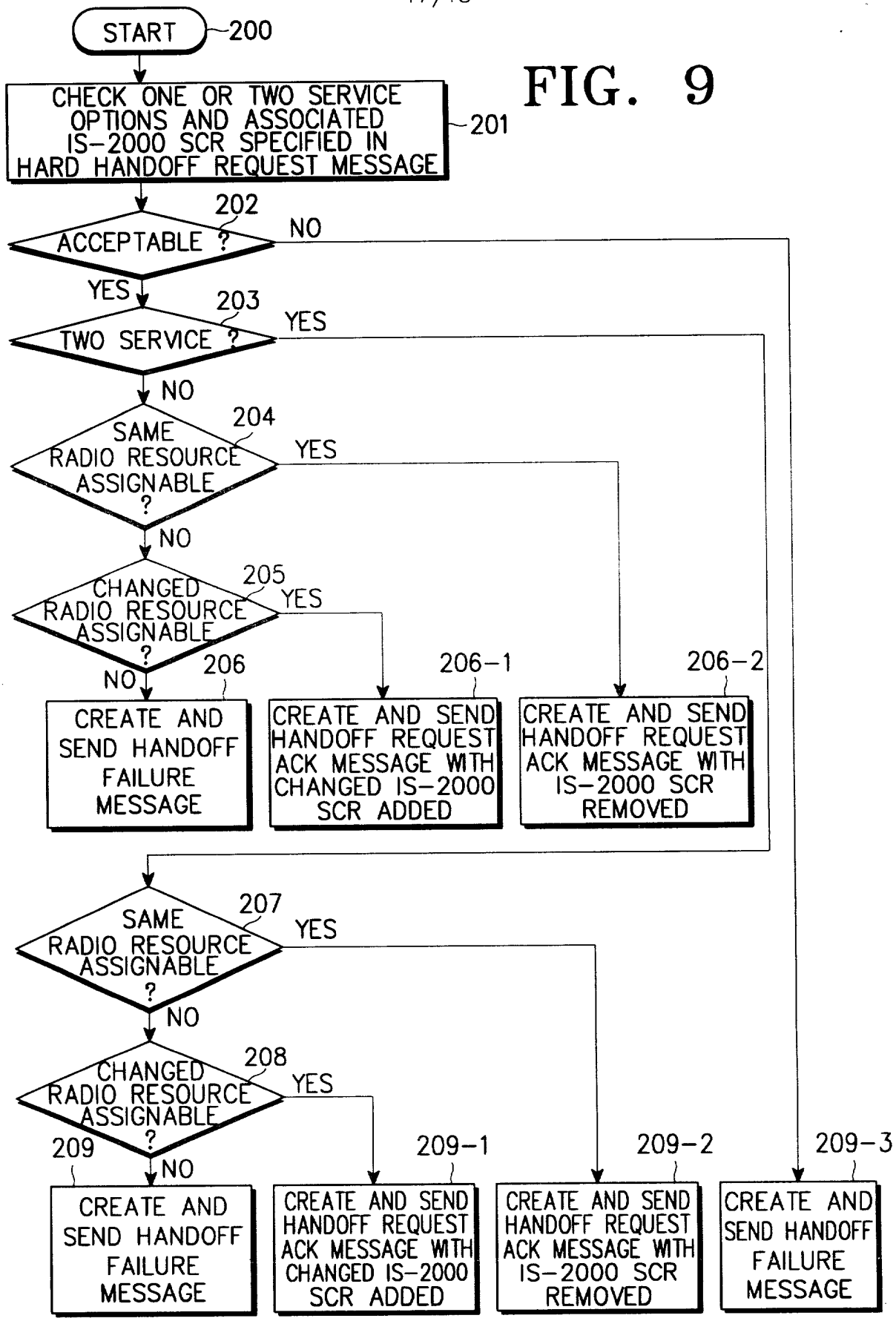

MS
SOURCE BS
MSC
PDSN
TARGET BS
TIME
CONCURRENT SERVICE
80a
HANDOFF REQUIRED
80b
HANDOFF REQUEST
80c
T7
NULL FORWARD TRAFFIC CHANNEL FRAMES
80d
HANDOFF REQUEST ACK
80e
HANDOFF COMMAND
80f
HANDOFF DIRECTION MESSAGE
80g
T8
T9
MS Ack ORDER
Twaitho
80h
HANDOFF COMMENCED
80i
REVERSE TRAFFIC CHANNEL FRAMES OR TRAFFIC CHANNEL PREAMBLE
80j
HANDOFF COMPLETION MESSAGE
80k
BS Ack ORDER
80l
T306
HANDDOFF COMPLETE
80m
CLEAR COMMAND
80n
T315
CLEAR COMPLETE
80o

FIG. 8

FIG. 9


START
200
CHECK ONE OR TWO SERVICE OPTIONS AND ASSOCIATED IS-2000 SCR SPECIFIED IN HARD HANDOFF REQUEST MESSAGE
201
ACCEPTABLE ?
202
NO
YES
TWO SERVICE ?
203
YES
NO
SAME RADIO RESOURCE ASSIGNABLE ?
204
YES
NO
CHANGED RADIO RESOURCE ASSIGNABLE ?
205
YES
NO
206
CREATE AND SEND HANDOFF FAILURE MESSAGE
206-1
CREATE AND SEND HANDOFF REQUEST ACK MESSAGE WITH CHANGED IS-2000 SCR ADDED
206-2
CREATE AND SEND HANDOFF REQUEST ACK MESSAGE WITH IS-2000 SCR REMOVED
SAME RADIO RESOURCE ASSIGNABLE ?
207
YES
NO
CHANGED RADIO RESOURCE ASSIGNABLE ?
208
YES
NO
209
CREATE AND SEND HANDOFF FAILURE MESSAGE
209-1
CREATE AND SEND HANDOFF REQUEST ACK MESSAGE WITH CHANGED IS-2000 SCR ADDED
209-2
CREATE AND SEND HANDOFF REQUEST ACK MESSAGE WITH IS-2000 SCR REMOVED
209-3
CREATE AND SEND HANDOFF FAILURE MESSAGE

INFORMATION ELEMENT
MESSAGE TYPE
CHANNEL TYPE
ENCRYPTION INFORMATION
CLASSMARK INFORMATION TYPE2
CELL IDENTIFIER LIST(TARGET)
CIRCUIT IDENTIFIER CODE EXTENSION
IS-95 CHANNEL IDENTITY
MOBILE IDENTITY(IMSI)
MOBILE IDENTITY(ESN)
DOWNLINK RADIO ENVIRONMENT
SERVICE OPTION
CDMA SERVING ONE WAY DELAY
IS-95 MS MEASURED CHANNEL IDENTITY
IS-2000 CHANNEL IDENTITY
QUALITY OF SERVICE PARAMETERS
IS-2000 MOBILE CAPABILITIES
IS-2000 SERVICE CONFIGURATION RECORD
PDSN IP ADDRESS
PROTOCOL TYPE
PACKET ZONE ID
SERVICE OPTION CONNECTION REFERENCE

FIG. 10